

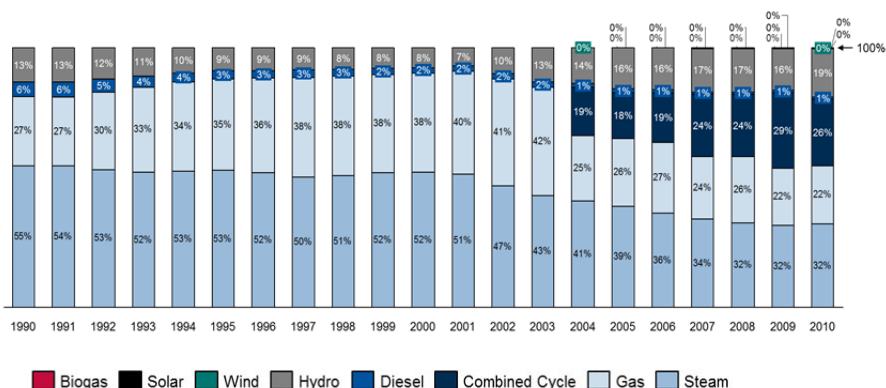
6 Annex

Figure 81: Spheres of Influence: Anglo-Russian Convention, 1907⁹⁷⁹



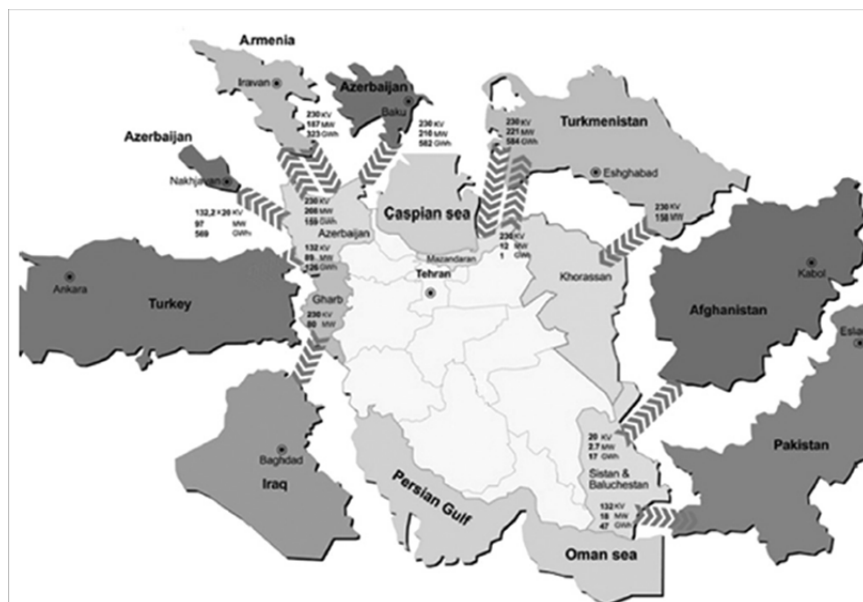
979 Stephen Kinzer, *All the Shah's Men*, p.20.

Figure 82: Nominal capacities of power plants of the Ministry of Energy in Iran, by source in percent, 1990-2010⁹⁸⁰



980 Iranian Ministry of Energy, *Energy Balance-Sheet Iran* (“ترازنامه انرژی ایران”) (Tehran: Iranian Ministry of Energy, 1994); Iranian Ministry of Energy, *Energy Balance-Sheet Iran* (“ترازنامه انرژی ایران”) (Tehran: Iranian Ministry of Energy, 1995); Iranian Ministry of Energy, *Energy Balance-Sheet Iran* (“ترازنامه انرژی ایران”) (Tehran: Iranian Ministry of Energy, 1998); Iranian Ministry of Energy, *Energy Balance-Sheet Iran* (“ترازنامه انرژی ایران”) (Tehran: Iranian Ministry of Energy, 2000); Iranian Ministry of Energy, *Energy Balance-Sheet Iran* (“ترازنامه انرژی ایران”) (Tehran: Iranian Ministry of Energy, 2004); Iranian Ministry of Energy, *Energy Balance-Sheet Iran* (“ترازنامه انرژی ایران”) (Tehran: Iranian Ministry of Energy, 2008); Iranian Ministry of Energy, *Energy Balance-Sheet Iran* (“ترازنامه انرژی ایران”) (Tehran: Iranian Ministry of Energy, 2010); Iranian Ministry of Energy, *Energy Balance-Sheet Iran* (“ترازنامه انرژی ایران”) (Tehran: Iranian Ministry of Energy, 2012).

Figure 83: Interconnections of the Iranian Grid with Neighboring States⁹⁸¹



981 K. A. Khosroshahi, S. Jadid and M. Shahidehpour, 'Electric Power Restructuring in Iran: Achievements and Challenges', in *The Electricity Journal*, 22(2), 74-83 (p.78).

Table 34: Electricity generation from wind power plants in Iran (2004-2010)⁹⁸²

| Year | State | Nominal Power (in MW) | No. of Turbines | Gross electricity generation (in MWh) |
|------|--|-----------------------|-----------------|---------------------------------------|
| 2004 | Gilan and Khorasan | 24.9 | 56 | 46,511.471 |
| 2005 | Gilan and Khorasan | 44.6 | 92 | 70,902.196 |
| 2006 | Gilan, Khorasan and Tabriz | 58.8 | 110 | 125,313.646 |
| 2007 | Gilan, Khorasan, Tabriz, Binalud Khorasan, Ventis, Sahand Tabriz | 74.0 | 133 | 143,354.683 |
| 2008 | Gilan, Khorasan, Tabriz, Binalud Khorasan, Ventis, Sahand Tabriz | 89.8 | 157 | 196,311.192 |
| 2009 | Gilan, Khorasan, Tabriz, Binalud Khorasan, Ventis, Sahand Tabriz, Eynali Tabriz, Lutak Zabol | 90.3 | 156 | 224,611.230 |
| 2010 | Gilan, Khorasan, Tabriz, Binalud Khorasan, Ventis, Sahand Tabriz, Eynali Tabriz, Lutak Zabol, Babakoohi Shiraz, Mahshahr Khuzestan | 92.9 | 160 | 162,595.500 |

982 Mohsen Bahrami and Payam Abbaszadeh, 'An overview of renewable energies in Iran' in *Renewable and Sustainable Energy Reviews*, p.201.

Table 35: Solar projects in Iran until the end of 2010⁹⁸³

| Project name | Region (Province) | Start | Utilize | Percentage of progress until 2010 | Capacity (MW) | Grid type |
|---|--|-------|---------|-----------------------------------|---------------|-----------|
| Darbid Yazd power plant development | Yazd | 1999 | 2000 | 100 | 0.012 | off-grid |
| Sar Kavir Semnan power plant development | Semnan | 1999 | 2000 | 100 | 0.015 | off-grid |
| 30 kW | Tehran, Taleghan | 2000 | 2002 | 100 | 0.030 | off-grid |
| Solar water heater | Yazd, Khorasan, Sistan and Isfahan | 2000 | 2002 | 100 | 4.312 | off-grid |
| Rural electrification to 60 households | | 2006 | 2007 | 100 | 0.050 | off-grid |
| 6 kW hybrid (wind and solar) | Tehran, Energy deputy affairs building | 2006 | 2008 | 100 | 0.006 | off-grid |
| 10 kW photovoltaic | Tehran, Taleghan | 2004 | 2008 | 100 | 0.010 | off-grid |
| Shiraz solar plant (vapor phase) | Fars | 1999 | 2008 | 100 | 0.250 | off-grid |
| Solar park (purchase, build and install equipment for solar thermal research) | Alborz, Taleghan | 2005 | 2009 | 100 | - | off-grid |
| Rural electrification to 634 households (in two stages) | | 2008 | 2010 | 31 | 0.650 | off-grid |
| Total by the end of 2010 | 5.335 | | | | | |

983 *ibid.*, p.203.

Table 36: New power plants in the third five-year period in Iran⁹⁸⁴

| | Name | Region | Type of power plant | Fuel type | Capacity in MW |
|-------------------------------|-----------------------|-----------------|---------------------|-------------------------------|----------------|
| 2000 | Yazd Combined Cycle | Yazd | Combined Cycle | natural gas, diesel | 123.4 |
| | Iran Atomic Org. | Harzevil | Wind energy | | 0.3 |
| | Yazd Combined Cycle | Yazd | Combined Cycle | natural gas, diesel | 123.4 |
| | Montazer Qaem C.C | Karaj | Combined Cycle | natural gas, diesel | 100.0 |
| | Kangan | Shiraz | Gas | natural gas/ diesel | 25.0 |
| | Shazand (Arak) | Arak | Steam | natural gas/ diesel/ fuel oil | 325.0 |
| | Semnan | Semnan | Gas | natural gas/ diesel | 25.0 |
| | Montazer Qaem C.C | Karaj | Combined Cycle | natural gas, diesel | 100.0 |
| | Shazand (Arak) | Arak | Steam | natural gas/ diesel/ fuel oil | 325.0 |
| Total capacity in 2000 | | | | | 1,147.1 |
| 2001 | Rajaei Combined Cycle | Qazvin | Combined Cycle | natural gas, diesel | 100.0 |
| | Dareh-e-takht 2 | Lourestan | Wind energy | | 0.9 |
| | Shahid Madhaj | Ahwaz | Gas | natural gas, diesel | 32.0 |
| | Kerman | Kerman | Gas | natural gas, diesel | 477.0 |
| | Shazand (Arak) | Arak | Steam | natural gas/ diesel/ fuel oil | 325.0 |
| | Rajaei | Qazvin | Combined Cycle | natural gas/ diesel/ fuel oil | 100.0 |
| | Kerman | Kerman | Gas | natural gas, diesel | 159.0 |
| | Rajaei | Qazvin | Combined Cycle | natural gas/ diesel/ fuel oil | 100.0 |
| | Kerman | Kerman | Gas | natural gas, diesel | 159.0 |
| | Kangan | Shiraz | Gas | natural gas/ diesel | 25.0 |
| | Shazand (Arak) | Arak | Steam | natural gas/ diesel/ fuel oil | 325.0 |
| Total capacity in 2001 | | | | | 1,802.9 |
| 2002 | Kerman | Kerman | Gas | natural gas, diesel | 159.0 |
| | Kornagh | Khalkhal | Hydro | | 0.1 |
| | Farag-e-darab | Fars | Gas | natural gas, diesel | 1.4 |
| | Farag-e-darab | Fars | Gas | natural gas, diesel | 1.4 |
| | Farag-e-darab | Fars | Gas | natural gas, diesel | 1.4 |
| | Fars Combined Cycle | Shiraz | Combined Cycle | natural gas/ diesel | 98.3 |
| | Khoy Combined Cycle | Khoy | Combined Cycle | natural gas/ diesel | 102.5 |
| | Bandarabbas | Bandarabbas | Gas | natural gas/ diesel | 25.0 |
| | Bandarabbas | Bandarabbas | Gas | natural gas/ diesel | 25.0 |
| | Kazeroun | Kazeroun | Gas | natural gas/ diesel | 159.0 |
| | Karkhe | Karkhe | Hydro | | 133.0 |
| | Kazeroun | Kazeroun | Gas | natural gas/ diesel | 159.0 |
| | Fars Combined Cycle | Shiraz | Combined Cycle | natural gas/ diesel | 98.3 |
| | Masjed Soleyman | Masjed Soleyman | Hydro | | 250.0 |
| | Kerman | Kerman | Gas | natural gas, diesel | 159.0 |
| | Kerman | Kerman | Gas | natural gas, diesel | 159.0 |
| | Karkhe | Karkhe | Hydro | | 133.0 |
| | Shoot Moghan | Moghan | Hydro | | 6.5 |
| | Shoot Moghan | Moghan | Hydro | | 6.5 |
| | Neishaboor | Neishaboor | Combined Cycle | natural gas/ diesel | 100.0 |
| | Masjed Soleyman | Masjed Soleyman | Hydro | | 250.0 |
| | Fars Combined Cycle | Shiraz | Combined Cycle | natural gas/ diesel | 98.3 |
| | Iranshahr | Iranshahr | Steam | diesel/ fuel oil | 64.0 |
| | Abadan | Abadan | Steam | diesel/ fuel oil | 123.4 |
| | Abadan | Abadan | Steam | diesel/ fuel oil | 123.4 |
| | Shahid Abbaspour | Masjed Soleyman | Hydro | | 250.0 |
| Total capacity in 2002 | | | | | 2,686.5 |

984 Tavanir Holding Company, 'Statistical Report on 44 Years of Activities of the Iranian Electric Power Industry (1967-2010)'.

| | Name | Region | Type of power plant | Fuel type | Capacity in MW |
|---|-------------------------|------------------------|---------------------|-------------------------------|-----------------|
| 2003 | Kish | Kish | Gas | natural gas/ diesel | 23.5 |
| | Shariati Combined Cycle | Mashad | Combined Cycle | natural gas/ diesel | 100.0 |
| | Neishaboor C.C | Neishaboor | Combined Cycle | natural gas/ diesel | 100.0 |
| | Iran Atomic Org. | Manjil & Paskolan | Wind energy | | 2.8 |
| | Iran Atomic Org. | Harzevil | Wind energy | | 2.4 |
| | Ministry of Energy | Manjil & Roodbar | Wind energy | | 0.6 |
| | Shahid Abbaspour | Masjed Soleyman | Hydro | | 250.0 |
| | Karkhe | Karkhe | Hydro | | 133.0 |
| | Abadan | Abadan | Steam | diesel/ fuel oil | 123.4 |
| | Kazeroon | Kazeroon | Gas | natural gas/ diesel | 159.0 |
| | Masjed Soleyman | Masjed Soleyman | Hydro | | 250.0 |
| | Abadan | Abadan | Steam | diesel/ fuel oil | 123.4 |
| | Neishaboor | Neishaboor | Combined Cycle | natural gas/ diesel | 100.0 |
| | Iranshahr | Iranshahr | Steam | diesel/ fuel oil | 64.0 |
| | Kazeroon | Kazeroon | Gas | natural gas/ diesel | 159.0 |
| | Masjed Soleyman | Masjed Soleyman | Hydro | | 250.0 |
| | Chadormalo | Yazd | Gas | natural gas/ diesel | 40.0 |
| | Damavand | Damavand | Gas | natural gas/ diesel | 159.0 |
| | Damavand | Damavand | Gas | natural gas/ diesel | 159.0 |
| | Shahid Abbaspour | Masjed Soleyman | Hydro | | 250.0 |
| | Shahid Abbaspour | Masjed Soleyman | Hydro | | 250.0 |
| | Damavand | Damavand | Gas | natural gas/ diesel | 159.0 |
| Total capacity in 2003 | | | | | 2,858.1 |
| 2004 | Pol Kalo 1 | Yasooj | Hydro | | 2.0 |
| | Pol Kalo 1 | Yasooj | Hydro | | 2.0 |
| | Folad-e- mobarakeh | Isfahan | Gas | natural gas/ diesel | 108.0 |
| | Damavand | Garmsar | Gas | natural gas/ diesel | 159.0 |
| | Damavand | Garmsar | Gas | natural gas/ diesel | 159.0 |
| | Sahand | Tabriz | Steam | natural gas/ diesel/ fuel oil | 325.0 |
| | Damavand | Garmsar | Gas | natural gas/ diesel | 159.0 |
| | Maroon | Behbahan | Hydro | | 75.0 |
| | Hormozgan | Bandarabbas | Gas | natural gas/ diesel | 165.0 |
| | Hormozgan | Bandarabbas | Gas | natural gas/ diesel | 165.0 |
| | Damavand | Garmsar | Gas | natural gas/ diesel | 159.0 |
| | Hormozgan | Bandarabbas | Gas | natural gas/ diesel | 165.0 |
| | Damavand | Garmsar | Gas | natural gas/ diesel | 159.0 |
| | Hormozgan | Bandarabbas | Gas | natural gas/ diesel | 165.0 |
| | Damavand | Garmsar | Gas | natural gas/ diesel | 159.0 |
| | Hormozgan | Bandarabbas | Gas | natural gas/ diesel | 165.0 |
| | Kohrang | Charmahal-e-bakhtiyari | Hydro | | 13.0 |
| | Karoon 3 | Masjed Soleyman | Hydro | | 250.0 |
| | Karoon 3 | Masjed Soleyman | Hydro | | 250.0 |
| | Damavand | Garmsar | Gas | natural gas/ diesel | 159.0 |
| | Binalood-e- Khorasan | Mashad | Wind energy | | 3.3 |
| | Iran Atomic Org. | Harzevil | Wind energy | | 0.3 |
| | Iran Atomic Org. | Paskolan | Wind energy | | 2.0 |
| | Iran Atomic Org. | Paskolan | Wind energy | | 2.8 |
| Total capacity in 2004 | | | | | 2,971.3 |
| Total new capacity in the third five-year period | | | | | 11,465.8 |

Table 37: New power plants in the fourth five-year period in Iran⁹⁸⁵

| | Name | Region/owner of power plant | Type of power plant | Fuel type | Capacity in MW |
|------------------------|----------------------|-----------------------------|---------------------|-------------------------------|----------------|
| 2005 | Hormozgan | Bandarabbas | Gas | natural gas, diesel | 165.0 |
| | Kohrang | Charmahal-e-bakhtiyari | Hydro | | 13.0 |
| | Sahand | Tabriz | Steam | natural gas, diesel, fuel oil | 325.0 |
| | Kohrang | Charmahal-e-bakhtiyari | Hydro | | 13.0 |
| | Karoon 3 | Masjed Soleyman | Hydro | | 250.0 |
| | Damavand | Garmsar | Gas | natural gas/ diesel | 159.0 |
| | Karoon 3 | Masjed Soleyman | Hydro | | 250.0 |
| | Damavand | Garmsar | Gas | natural gas/ diesel | 159.0 |
| | South Of Isfahan | Isfahan | Gas | natural gas/ diesel | 159.0 |
| | South Of Isfahan | Isfahan | Gas | natural gas/ diesel | 159.0 |
| | sanandaj | sanandaj | Gas | natural gas/ diesel | 159.0 |
| | South Of Isfahan | Isfahan | Gas | natural gas/ diesel | 159.0 |
| | South Of Isfahan | Isfahan | Gas | natural gas/ diesel | 159.0 |
| | Karoon 3 | Masjed Soleyman | Hydro | | 250.0 |
| | sanandaj | sanandaj | Gas | natural gas/ diesel | 159.0 |
| | Karoon 3 | Masjed Soleyman | Hydro | | 250.0 |
| | shirvan | shirvan | Gas | natural gas/ diesel | 159.0 |
| | South Of Isfahan | Isfahan | Gas | natural gas/ diesel | 159.0 |
| | Binalood-e- Khorasan | Mashad | Wind energy | | 12.6 |
| | Fajr Petrochemical | | Gas | natural gas/ diesel | 585.0 |
| Total capacity in 2005 | | | | | 3,703.6 |
| 2006 | Parand | Tehran | Gas | natural gas/ diesel | 159.0 |
| | sanandaj | sanandaj | Gas | natural gas/ diesel | 159.0 |
| | shirvan | shirvan | Gas | natural gas/ diesel | 159.0 |
| | Parand | Tehran | Gas | natural gas/ diesel | 159.0 |
| | petroshimi mobin | | Gas | natural gas/ diesel | 738.0 |
| | South Of Isfahan | Isfahan | Gas | natural gas/ diesel | 159.0 |
| | sanandaj | sanandaj | Gas | natural gas/ diesel | 159.0 |
| | Parand | Tehran | Gas | natural gas/ diesel | 159.0 |
| | shirvan | shirvan | Gas | natural gas/ diesel | 159.0 |
| | Karoon 3 | Masjed Soleyman | Hydro | | 250.0 |
| | Salimi | Neka | Combined Cycle | natural gas/ diesel | 161.0 |
| | Yazd | Yazd | Combined Cycle | natural gas/ diesel | 161.0 |
| | Parand | Tehran | Gas | natural gas/ diesel | 159.0 |
| | shirvan | shirvan | Gas | natural gas/ diesel | 159.0 |
| | Taleghan | Taleghan | Hydro | | 9.0 |
| | Taleghan | Taleghan | Hydro | | 9.0 |
| | daretaht 1 | Azna | Hydro | | 0.3 |
| | daretaht 1 | Azna | Hydro | | 0.3 |
| | Karoon 3 | Masjed Soleyman | Hydro | | 250.0 |
| | Parand | Tehran | Gas | natural gas/ diesel | 159.0 |
| | Roodeshour | Tehran | Gas | natural gas/ diesel | 264.0 |
| | Binalood | Neishaboor | Wind energy | | 9.9 |
| | Roodeshour | Tehran | Gas | natural gas/ diesel | 264.0 |
| | Orumia | Orumia | Gas | natural gas/ diesel | 159.0 |
| | shirvan | shirvan | Gas | natural gas/ diesel | 159.0 |
| | Parand | Tehran | Gas | natural gas/ diesel | 159.0 |
| Total capacity in 2006 | | | | | 4,342.5 |

985 ibid.

| | | | | | |
|-------------------------------|-----------------|-----------------|----------------|-------------------------------|----------------|
| 2007 | Orumia | Orumia | Gas | natural gas/ diesel | 159.0 |
| | Mollasadra | | Hydro | | 50.0 |
| | Mollasadra | | Hydro | | 50.0 |
| | shirvan | shirvan | Gas | natural gas/ diesel | 159.0 |
| | Ferdosi | Mashad | Gas | natural gas/ diesel | 159.0 |
| | Kahnooj | Mashad | Gas | natural gas/ diesel | 25.0 |
| | Rey | Rey | Gas | natural gas/ diesel | 25.0 |
| | Orumia | Orumia | Gas | natural gas/ diesel | 159.0 |
| | Mashad | Mashad | Steam | natural gas, diesel, fuel oil | 12.0 |
| | Masjed Soleyman | Masjed Soleyman | Hydro | | 250.0 |
| | Jahrom | Jahrom | Gas | natural gas/ diesel | 159.0 |
| | Zahedan | Zahedan | Gas | (natural gas)/ diesel | 25.0 |
| | Zahedan | Zahedan | Gas | (natural gas)/ diesel | 25.0 |
| | Ferdosi | Mashad | Gas | natural gas/ diesel | 159.0 |
| | Kazeroon | Kazeroon | Combined Cycle | natural gas/ diesel | 160.0 |
| | Roodeshoor | Tehran | Gas | natural gas/ diesel | 263.0 |
| | Zahedan | Zahedan | Gas | (natural gas)/ diesel | 25.0 |
| | Zahedan | Zahedan | Gas | (natural gas)/ diesel | 25.0 |
| | Orumia | Orumia | Gas | natural gas/ diesel | 159.0 |
| | Kahnooj | Mashad | Gas | natural gas/ diesel | 25.0 |
| | Masjed Soleyman | Masjed Soleyman | Hydro | | 250.0 |
| | Kish | Kish | Gas | (natural gas)/ diesel | 38.0 |
| | Jahrom | Jahrom | Gas | (natural gas)/ diesel | 159.0 |
| | Asalouye 2 | Asalouyeh | Gas | (natural gas)/ diesel | 159.0 |
| | Ferdosi | Mashad | Gas | natural gas/ diesel | 159.0 |
| | Asalouye 2 | Asalouyeh | Gas | (natural gas)/ diesel | 159.0 |
| | Kazeroon | Kazeroon | Gas | natural gas/ diesel | 160.0 |
| | Jahrom | Jahrom | Gas | (natural gas)/ diesel | 159.0 |
| | Jahrom | Jahrom | Gas | (natural gas)/ diesel | 159.0 |
| | Ferdosi | Mashad | Gas | natural gas/ diesel | 159.0 |
| | Masjed Soleyman | Masjed Soleyman | Hydro | | 250.0 |
| | Kerman | Kerman | Gas | natural gas/ diesel | 160.0 |
| | C.C Sabalan | Ardabil | Gas | (natural gas)/ diesel | 159.0 |
| Total capacity in 2007 | | | | | 4,203.0 |
| 2008 | Neka | Neka | Steam | natural gas, diesel, fuel oil | 20.0 |
| | Ramin | Ahwaz | Steam | natural gas, diesel, fuel oil | 13.0 |
| | Binalood | Khorasan | Wind energy | | 15.0 |
| | C.C Sabalan | Ardabil | Gas | (natural gas)/ diesel | 159.0 |
| | Ferdosi | Mashad | Gas | natural gas/ diesel | 159.0 |
| | Jahrom | Jahrom | Gas | (natural gas)/ diesel | 159.0 |
| | Chabahar | Chabahar | Gas | (natural gas)/ diesel | 24.0 |
| | Kerman | Kerman | Combined Cycle | natural gas/ diesel | 160.0 |
| | Asalouye | Asalouyeh | Gas | natural gas/ diesel | 159.0 |
| | Chabahar | Chabahar | Gas | (natural gas)/ diesel | 24.0 |
| | Masjed Soleyman | Masjed Soleyman | Hydro | | 250.0 |
| | Sabalan | Ardabil | Gas | natural gas/ diesel | 159.0 |
| | Asalouye | Asalouyeh | Gas | natural gas/ diesel | 159.0 |
| | Sabalan | Ardabil | Gas | natural gas/ diesel | 159.0 |
| | Ferdosi | Mashad | Gas | natural gas/ diesel | 159.0 |
| | Jahrom | Jahrom | Gas | (natural gas)/ diesel | 159.0 |
| | Kerman | Kerman | Combined Cycle | natural gas/ diesel | 160.0 |
| | Asalouye | Asalouyeh | Gas | natural gas/ diesel | 159.0 |
| | Chabahar | Chabahar | Gas | (natural gas)/ diesel | 24.0 |
| | South Pars | Asalouyeh | Gas | natural gas | 159.0 |
| | Asalouye | Asalouyeh | Gas | natural gas/ diesel | 159.0 |
| | Chabahar | Chabahar | Gas | (natural gas)/ diesel | 24.0 |
| | Chabahar | Chabahar | Gas | (natural gas)/ diesel | 159.0 |
| | Yazd | Yazd | Combined Cycle | natural gas/ diesel | 159.0 |
| | South Pars | Asalouyeh | Gas | natural gas | 159.0 |
| | Kerman | Kerman | Combined Cycle | natural gas/ diesel | 160.0 |
| | Khoramshahr | Khoramshahr | Gas | natural gas/ diesel | 162.0 |
| | Shirvan | Ghaen | Gas | natural gas/ diesel | 159.0 |
| Total capacity in 2008 | | | | | 3,580.0 |

| | | | | | |
|---|--------------------|----------------|-------------|-------------------------------|-----------------|
| 2009 | Biogas Mashad | public (city) | Biogas | Biogas | 0.7 |
| | Biogas Shiraz | public (city) | Biogas | Biogas | 1.2 |
| | Khorshidie Tabriz | public | solar | solar | 0.0 |
| | Badie Tabriz | public | Wind energy | Wind energy | 0.7 |
| | Shahide Kaveh | public | Gas | natural gas/ diesel | 636.0 |
| | Kashan | private | Gas | natural gas/ diesel | 324.0 |
| | South Pars | large industry | Gas | natural gas/ diesel | 954.0 |
| | Chabahar | public | Gas | (natural gas)/ diesel | 414.0 |
| | Siki Tarkibie Yazd | public | Gas | natural gas/ diesel | 724.0 |
| | Khoramshahr | private | Gas | natural gas/ diesel | 486.0 |
| | Shahid Rejaii | public | Hydro | hydropower | 8.8 |
| | Palayeshgahe Ilam | large industry | Gas | natural gas/ diesel | 50.0 |
| | Damavand | public | Steam | natural gas, diesel, fuel oil | 2388.0 |
| | petroshimi fajar | large industry | Gas | natural gas/ diesel | 835.0 |
| | Lavarak | public | Hydro | hydropower | 23.5 |
| | | | | | 6,845.8 |
| Total new capacity in the third five-year period | | | | | 22,675.0 |

Table 38: New power plants in the fifth five-year period in Iran (until 2011)⁹⁸⁶,
987

| | Name | Owner | Type of power plant | Fuel type | Capacity in MW |
|---|------------------------|----------------|---------------------|-------------|----------------|
| 2010 | Golestan | private | natural gas | natural gas | 972.0 |
| | Khoramshahr | private | natural gas | natural gas | 162.0 |
| | Palayeshgahe Gaz Ilam | large industry | natural gas | natural gas | 25.0 |
| | Petrochemi Ilam | large industry | natural gas | natural gas | 120.0 |
| | Karkhaneye Gaz Meli | large industry | natural gas | natural gas | 324.0 |
| | Petrochemi Pejar | large industry | natural gas | natural gas | 324.0 |
| | Siki Tarkibie Urumieh | public | natural gas | natural gas | 324.0 |
| | Zagros (Kermanshah) | public | natural gas | natural gas | 486.0 |
| | Soltanieh | public | natural gas | natural gas | 486.0 |
| | Siki Tarkibie Silan | public | natural gas | natural gas | 324.0 |
| | Siki Tarkibie Semnan | public | natural gas | natural gas | 324.0 |
| | Semnan | public | natural gas | natural gas | 12.5 |
| | Siki Tarkibie Damavand | public | steam | natural gas | 160.0 |
| | Siki Tarkibie Yazd | public | steam | natural gas | 160.0 |
| | Karoon | public | hydropower | hydropower | 750.0 |
| | Shahid Rajajan | public | hydropower | hydropower | 4.5 |
| | Manj | public | hydropower | hydropower | 5.0 |
| | Bad Shiraz | public | wind | wind | 0.7 |
| | Bad Tabriz | public | wind | wind | 1.3 |
| | Bad Mahshahr | public | wind | wind | 0.7 |
| | Diesel Khorasan | public | diesel | diesel | 16.1 |
| | | | | | 4,981.7 |
| 2011 | Shahid Montazari | public | steam | natural gas | 8.0 |
| | Zub Ahan | large industry | steam | natural gas | 110.0 |
| | Zagros | public | natural gas | natural gas | 162.0 |
| | Bastami (Shahrud) | public | natural gas | natural gas | 324.0 |
| | Zavareh (Esfehan) | private | natural gas | natural gas | 324.0 |
| | Hafez (Fars) | private | natural gas | natural gas | 324.0 |
| | Pareh Sar | private | natural gas | natural gas | 486.0 |
| | Moledhaye parakandeh | private | natural gas | natural gas | 258.0 |
| | Sanandaj | public | steam | natural gas | 160.0 |
| | Karoon | public | hydropower | hydropower | 250.0 |
| | Piran | public | hydropower | hydropower | 8.4 |
| | Safeye Esfehan | public | wind | wind | 0.7 |
| | Manjil | public | wind | wind | 4.6 |
| | Bushehr | public | nuclear | nuclear | 1020.0 |
| | | | | | 3,439.7 |
| Total new capacity in the third five-year period | | | | | 8,421.4 |

986 ibid.

987 Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2013).

Table 39: Nominal capacities of power plants of the Ministry of Energy in Iran, 2000-2011⁹⁸⁸

| Year | Steam | Gas | Combined Cycle | Diesel | Hydro | Wind | Solar | Biogas | Nuclear Energy | Total |
|------|----------|----------|----------------|--------|---------|------|-------|--------|----------------|----------|
| 2000 | 13,752.0 | 10,003.0 | | 533.0 | 1,999.0 | | | | | 26,287.0 |
| 2001 | 14,402.0 | 11,098.0 | | 533.0 | 1,999.0 | | | | | 28,032.0 |
| 2002 | 14,466.0 | 12,620.0 | | 690.0 | 3,028.0 | | | | | 30,804.0 |
| 2003 | 14,530.4 | 13,968.0 | | 692.6 | 4,423.7 | | | | | 33,614.7 |
| 2004 | 14,855.4 | 9,074.3 | 6,731.7 | 493.1 | 5,011.7 | 3.9 | 0.0 | - | | 36,270.1 |
| 2005 | 14,914.0 | 9,906.3 | 6,731.7 | 493.1 | 6,043.9 | 47.6 | 0.1 | - | | 38,236.7 |
| 2006 | 14,914.0 | 11,281.9 | 7,835.5 | 417.9 | 6,572.2 | 57.8 | 0.1 | - | | 41,080.4 |
| 2007 | 14,935.0 | 10,589.7 | 10,478.5 | 417.9 | 7,422.3 | 74.0 | 0.1 | - | | 43,917.5 |
| 2008 | 14,935.0 | 11,798.7 | 11,116.5 | 418.0 | 7,672.5 | 89.9 | 0.1 | - | | 46,030.6 |
| 2009 | 14,935.0 | 10,478.7 | 13,663.5 | 424.0 | 7,704.7 | 90.6 | 0.1 | 1.9 | | 47,299.0 |
| 2010 | 14,935.5 | 12,410.2 | 13,983.0 | 408.4 | 8,487.8 | 92.9 | 0.1 | 1.9 | | 50,319.8 |
| 2011 | 14,942.6 | 12,260.3 | 14,779.5 | 408.4 | 8,746.2 | 98.2 | 0.1 | 1.9 | 1,020.0 | 52,257.2 |

Figure 84: Maximum load in MW⁹⁸⁹

| REC | Max. load in MW | | | | | | | Outlook - max. load in MW | | | | | | | | CAGR |
|----------------------|-----------------|--------|--------|--------|--------|--------|--------|---------------------------|--------|--------|--------|--------|--------|--------|--------|------|
| | 1996 | 2003 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2017 | 2019 | 2021 | | |
| | 1375 | 1382 | 1386 | 1387 | 1388 | 1389 | 1390 | 1391 | 1392 | 1393 | 1394 | 1396 | 1398 | 1400 | | |
| Azerbaijan | 1,065 | 1,648 | 2,157 | 2,226 | 2,309 | 2,206 | 2,418 | 2,545 | 2,726 | 2,840 | 2,957 | 3,208 | 3,479 | 3,773 | 46.52% | |
| Esfahan | 1,910 | 2,778 | 3,472 | 3,827 | 3,685 | 3,887 | 4,261 | 4,226 | 4,527 | 4,688 | 4,850 | 5,173 | 5,496 | 5,819 | 47.29% | |
| Bakhtar | 1,079 | 1,936 | 2,185 | 2,533 | 2,422 | 2,475 | 2,661 | 2,650 | 2,728 | 2,808 | 2,832 | 2,925 | 3,008 | 3,082 | 43.06% | |
| Tehran | 3,487 | 5,391 | 6,572 | 6,686 | 6,721 | 7,393 | 7,691 | 7,899 | 8,101 | 8,316 | 8,522 | 8,910 | 9,264 | 9,587 | 47.79% | |
| Khorasan | 1,282 | 2,055 | 2,677 | 2,676 | 2,638 | 2,686 | 3,012 | 3,075 | 3,266 | 3,372 | 3,479 | 3,693 | 3,906 | 4,119 | 45.06% | |
| Khuzestan | 2,284 | 3,984 | 5,263 | 5,858 | 6,204 | 7,047 | 7,097 | 7,719 | 8,013 | 8,408 | 8,802 | 9,590 | 10,379 | 11,168 | 34.71% | |
| Zanjan | 420 | 668 | 988 | 1,018 | 1,030 | 1,026 | 1,084 | 1,207 | 1,324 | 1,407 | 1,494 | 1,684 | 1,899 | 2,142 | 41.27% | |
| Semnan | 181 | 252 | 340 | 363 | 398 | 428 | 446 | 468 | 524 | 555 | 588 | 659 | 739 | 828 | 43.10% | |
| Sistan & Baluchestan | 211 | 437 | 748 | 835 | 875 | 905 | 1,033 | 1,109 | 1,205 | 1,302 | 1,404 | 1,619 | 1,850 | 2,095 | 22.71% | |
| Gharb | 518 | 903 | 1,277 | 1,435 | 1,364 | 1,265 | 1,879 | 2,072 | 2,327 | 2,546 | 2,786 | 3,336 | 3,994 | 4,764 | 30.04% | |
| Fars | 1,060 | 2,181 | 2,845 | 3,025 | 3,091 | 3,444 | 3,657 | 3,875 | 4,101 | 4,311 | 4,522 | 4,940 | 5,354 | 5,759 | 31.48% | |
| Kerman | 545 | 1,064 | 1,398 | 1,547 | 1,399 | 1,596 | 1,737 | 1,780 | 1,848 | 1,904 | 1,957 | 2,055 | 2,141 | 2,217 | 33.90% | |
| Gilan | 474 | 736 | 890 | 980 | 932 | 1,154 | 1,215 | 1,221 | 1,244 | 1,294 | 1,329 | 1,413 | 1,496 | 1,577 | 41.54% | |
| Mazandaran | 804 | 1,329 | 1,947 | 2,084 | 2,053 | 2,684 | 2,929 | 3,000 | 3,211 | 3,445 | 3,692 | 4,225 | 4,814 | 5,461 | 29.92% | |
| Hormozgan | 538 | 1,140 | 1,451 | 1,695 | 1,763 | 1,994 | 2,144 | 2,521 | 2,727 | 2,983 | 3,262 | 3,903 | 4,670 | 5,587 | 27.52% | |
| Yazd | 224 | 471 | 644 | 758 | 734 | 810 | 827 | 924 | 960 | 961 | 1,019 | 1,073 | 1,123 | 1,169 | 29.55% | |
| Kish | 27 | 59 | 90 | 91 | 93 | 101 | 118 | 117 | 132 | 142 | 152 | 176 | 204 | 237 | 25.25% | |
| Total | 16,109 | 27,032 | 34,944 | 37,637 | 37,711 | 41,101 | 42,353 | 46,408 | 48,964 | 51,285 | 53,646 | 58,581 | 63,813 | 69,383 | 40.57% | |

988 *ibid.*

989 Tavanir Holding Company, 'Maximum load of the Iranian grid ("حداکثر بار غیر همزمان")' <1375_1400 مورد نیاز کل کشور در طی سال های> <http://amar.tavanir.org.ir/pages/search.php> [accessed January 15 2014].

Table 40: Electricity sale of the Ministry of Energy by region (in GWh) in 2011⁹⁹⁰

| Region | Household | Public | Commercial | Industry | Agriculture | Public Lighting | Total |
|--------------------------|-----------|----------|------------|----------|-------------|-----------------|-----------|
| East Azerbaijan | 1,783.4 | 532.2 | 427.0 | 2,182.2 | 736.8 | 127.4 | 5,791.0 |
| West Azerbaijan | 1,300.0 | 282.9 | 233.5 | 821.1 | 889.3 | 115.6 | 3,532.4 |
| Ardebil | 472.0 | 116.6 | 98.6 | 317.8 | 221.3 | 49.3 | 1,275.7 |
| Esfehan | 3,229.0 | 861.2 | 809.1 | 10,790.3 | 2,773.5 | 242.4 | 18,705.4 |
| Alborz | 2,288.2 | 542.8 | 574.8 | 2,347.7 | 944.8 | 100.1 | 6,808.3 |
| Elam | 349.3 | 187.7 | 41.7 | 248.0 | 151.2 | 30.9 | 1,008.7 |
| Bushehr | 2,663.9 | 767.2 | 299.0 | 502.5 | 110.0 | 57.2 | 4,399.9 |
| Tehran | 8,763.4 | 4,252.6 | 3,993.8 | 5,886.2 | 1,416.5 | 379.0 | 24,691.4 |
| Chehar Mahal & Bakhtiari | 342.1 | 90.4 | 62.6 | 381.8 | 541.2 | 46.0 | 1,464.1 |
| South Khorasan | 269.8 | 93.9 | 55.5 | 248.5 | 488.0 | 61.6 | 1,217.2 |
| Khorasan Razavi | 3,165.8 | 779.9 | 764.4 | 3,314.6 | 4,372.0 | 286.7 | 12,673.4 |
| North Khorasan | 316.1 | 70.1 | 52.5 | 493.0 | 255.1 | 28.4 | 1,213.1 |
| Khuzestan | 9,269.2 | 1,691.7 | 867.7 | 8,244.3 | 1,582.3 | 343.7 | 21,999.0 |
| Zanjan | 413.3 | 121.1 | 78.7 | 1,585.8 | 454.1 | 47.8 | 2,700.9 |
| Semnan | 393.3 | 152.8 | 97.0 | 1,247.9 | 602.8 | 50.2 | 2,544.0 |
| Sistan & Baluchestan | 1,640.3 | 722.2 | 213.6 | 379.8 | 333.0 | 180.3 | 3,469.1 |
| Fars | 2,880.2 | 1,031.3 | 913.9 | 1,917.3 | 3,494.6 | 293.8 | 10,531.1 |
| Ghazvin | 627.4 | 195.2 | 135.1 | 1,749.1 | 790.8 | 47.8 | 3,545.3 |
| Ghom | 748.8 | 226.6 | 192.7 | 755.0 | 483.2 | 21.9 | 2,428.1 |
| Kurdistan | 725.4 | 253.4 | 99.2 | 288.5 | 273.4 | 39.7 | 1,679.6 |
| Kerman | 1,921.8 | 573.8 | 368.3 | 2,146.7 | 3,567.7 | 141.2 | 8,719.5 |
| Kermanshah | 885.4 | 387.0 | 143.9 | 711.7 | 357.6 | 95.3 | 2,581.0 |
| Kehgilliveh & Buyerahmad | 385.9 | 28.8 | 52.4 | 405.6 | 159.6 | 43.3 | 1,075.6 |
| Golestan | 992.1 | 190.6 | 157.3 | 433.1 | 385.4 | 49.5 | 2,228.9 |
| Gilan | 1,619.5 | 379.7 | 343.4 | 896.9 | 356.4 | 177.7 | 3,773.7 |
| Lorestan | 704.3 | 142.1 | 103.0 | 985.9 | 431.8 | 91.9 | 2,459.0 |
| Mazandaran | 2,281.1 | 539.5 | 454.0 | 1,701.9 | 674.0 | 195.5 | 5,846.1 |
| Markazi | 795.6 | 212.1 | 145.2 | 4,994.6 | 1,024.6 | 91.3 | 7,263.4 |
| Hormozgan | 3,897.2 | 913.5 | 568.6 | 4,173.1 | 583.2 | 110.9 | 10,246.6 |
| Hamadan | 873.5 | 210.8 | 129.4 | 666.1 | 1,000.6 | 116.2 | 2,996.6 |
| Yazd | 776.0 | 201.8 | 175.8 | 3,127.4 | 675.4 | 70.8 | 5,027.1 |
| Total | 56,773.7 | 16,751.5 | 12,663.6 | 63,944.2 | 30,020.3 | 3,752.1 | 183,905.4 |
| In % of total | 31% | 9% | 7% | 35% | 16% | 2% | |

990 *ibid.*

991 Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2003), p.171; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2004), p.182; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2005), p.212; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2006), p.244; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2007), p.224; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2008), p.265; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2009), p.137; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("رؤی ایران‌نامه المتراز")

Table 41: Operation of thermal power plants of the MoE, 2001-2011^{991, 992}

| Name of power plant | Type of power plant | Data available since | Nominal Capacity (in MW) | Operation (in MW) | | | | | | | | | | |
|--------------------------|---------------------|----------------------|--------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| Shahid Firozi | Steam | 2001 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Basat | Steam | 2001 | 248 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 | 225 |
| Shahid Montazer Qaem | Steam | 2001 | 626 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Eslam Abad (Esfahan) | Steam | 2001 | 835 | 830 | 830 | 828 | 827 | 827 | 827 | 828 | 828 | 830 | 830 | 830 |
| Shahid Mohammad Montazer | Steam | 2001 | 1,600 | 1,600 | 1,590 | 1,585 | 1,585 | 1,585 | 1,585 | 1,585 | 1,585 | 1,592 | 1,592 | 1,600 |
| Shahid Beheshti (Lusani) | Steam | 2001 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 | 240 |
| Shahid Salimi (Neka) | Steam | 2001 | 1,760 | 1,680 | 1,680 | 1,710 | 1,710 | 1,710 | 1,710 | 1,730 | 1,730 | 1,735 | 1,735 | 1,735 |
| Remin | Steam | 2001 | 1,880 | 1,830 | 1,755 | 1,748 | 1,748 | 1,748 | 1,747 | 1,761 | 1,761 | 1,843 | 1,823 | 1,823 |
| Shahid Mojtahed (Zargen) | Steam | 2001 | 280 | 280 | 280 | 280 | 280 | 280 | 280 | - | - | - | - | - |
| Bandar Abbas | Steam | 2001 | 1,260 | 1,260 | 1,260 | 1,340 | 1,240 | 1,240 | 1,240 | 1,240 | 1,240 | 1,270 | 1,260 | 1,260 |
| Zarand | Steam | 2001 | 60 | 50 | 50 | 49 | 49 | 49 | 50 | 50 | 50 | 50 | 47 | 47 |
| Taraz | Steam | 2001 | 736 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 700 | 650 | 650 | 650 |
| Shahid Raja | Steam | 2001 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Bisbur | Steam | 2001 | 640 | 640 | 640 | 640 | 640 | 640 | 640 | 640 | 640 | 640 | 640 | 640 |
| Molali Ghorb | Steam | 2001 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Mashad (1) | Steam | 2001 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | - | - | - | - |
| Mashad (2) | Steam | 2007 | 132 | - | - | - | - | - | - | 129 | 129 | 129 | 133 | 133 |
| Tous | Steam | 2001 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Shazand | Steam | 2001 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,270 | 1,270 | 1,270 |
| Hamshahr | Steam | 2001 | 128 | 128 | 189 | 249 | 249 | 249 | 249 | 249 | 249 | 246 | 246 | 246 |
| Shahand (1) | Steam | 2003 | 325 | - | - | 325 | - | - | - | - | - | - | - | - |
| Shahand (2) | Steam | 2004 | 650 | - | - | - | - | - | 650 | 650 | 650 | 650 | 650 | 650 |
| Rey | gas | 2001 | 1,027 | 1,058 | 1,038 | 970 | 970 | 970 | 862 | 862 | 852 | 756 | 756 | 772 |
| Taraz | gas | 2001 | 64 | 57 | 57 | 53 | 53 | 53 | 53 | 53 | 53 | 50 | 50 | 50 |
| Sofien | gas | 2001 | 100 | 84 | 84 | 75 | 78 | 78 | 78 | 78 | 78 | 74 | 74 | 74 |
| Shahid Beheshti (Lusani) | gas | 2001 | 120 | 112 | 112 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 |
| Shahid Salimi (Neka) | gas | 2001 | 275 | 275 | 275 | 265 | 265 | 265 | 265 | - | - | - | - | - |
| Behshahr | gas | 2001 | 75 | 68 | 54 | 50 | 50 | 50 | 63 | 63 | 63 | 55 | 54 | 54 |
| Kangan | gas | 2001 | 165 | 136 | 127 | 114 | 114 | 114 | 114 | 127 | 127 | 121 | 121 | 121 |

(Tehran: Iranian Ministry of Energy, 2010), p.157; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2011), p.149; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2012), p.146; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("ترازنامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2013), p.149.

992 Numbers in brackets for the same power plant indicate that the nominal capacity of the power plant has been changed due to expansions or reductions.

| Name of power plant | Type of power plant | Data available since | Nominal Capacity (in MW) | Operation | | | | | | | | | | | |
|--|---------------------|----------------------|--------------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | |
| Combined Cycle Chabahar | gas | 2008 | 954 | - | - | - | - | - | - | 810 | 810 | 810 | 785 | 770 | 762 |
| Gaenat | gas | 2008 | 60 | 54 | 48 | 44 | 50 | 50 | 50 | 50 | 50 | 50 | 41 | 41 | 41 |
| Combined Cycle Shahid Kaveh | gas | 2009 | 209 | 162 | 153 | 136 | 136 | 136 | 136 | 172 | 172 | 172 | 135 | 139 | 139 |
| Zagros | gas | 2010 | 120 | 107 | 88 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 88 | 88 | 88 |
| Soltanieh | gas | 2010 | 97 | 80 | 76 | 72 | 70 | 70 | 70 | 70 | 70 | 70 | 74 | 74 | 74 |
| Combined Cycle Semnan | gas | 2010 | 60 | 52 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 33 | 33 | 33 |
| Combined Cycle Shahroud | gas | 2011 | 87 | 72 | 69 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 65 | 65 |
| Combined Cycle Shahid Rajaee | combined cycle | 2001 | 196 | 181 | 181 | 166 | 166 | 166 | 166 | 166 | 166 | 166 | 169 | 170 | 170 |
| Combined Cycle Montazeri | combined cycle | 2001 | 150 | 132 | 132 | 120 | 120 | 120 | 120 | 80 | 80 | - | - | - | - |
| Combined Cycle Gilan | combined cycle | 2001 | 150 | 132 | 132 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 121 | 120 | 120 |
| Combined Cycle Ghom | combined cycle | 2001 | 75 | 60 | 60 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 56 | 56 | 56 |
| Combined Cycle Neyshabour (1) | combined cycle | 2002 | 25 | 22 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 14 | 6 | 6 |
| Combined Cycle Neyshabour (2) | combined cycle | 2005 | 150 | 138 | 138 | 94 | 94 | 94 | 94 | 95 | 95 | 95 | 108 | 338 | 338 |
| Combined Cycle Kivi | combined cycle | 2002 | 142 | - | - | - | - | - | - | - | - | - | - | 107 | 107 |
| Combined Cycle Fars | combined cycle | 2002 | 130 | 105 | 100 | 85 | 85 | 85 | 85 | 85 | 153 | 153 | 162 | 158 | 158 |
| Combined Cycle Shirazi | combined cycle | 2003 | 100 | 90 | 75 | 83 | 83 | 83 | 83 | 83 | - | - | - | - | - |
| Combined Cycle Shahid Salimi | combined cycle | 2006 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Combined Cycle Yazd (1) | combined cycle | 2006 | 159 | - | - | - | - | - | - | 120 | - | - | - | - | - |
| Combined Cycle Yazd (2) | combined cycle | 2008 | 636 | - | - | - | - | - | - | - | 553 | 553 | 522 | - | - |
| Combined Cycle Yazd (3) | combined cycle | 2009 | 960 | - | - | - | - | - | - | - | - | - | 787 | 787 | 787 |
| Combined Cycle Kaaroun | combined cycle | 2007 | 636 | - | - | - | - | - | - | - | 503 | 765 | 750 | - | - |
| Combined Cycle Kerman (1) | combined cycle | 2007 | 954 | - | - | - | - | - | - | - | - | - | - | 735 | 722 |
| Combined Cycle Kerman (2) | combined cycle | 2008 | 256 | 230 | 500 | 751 | 751 | 751 | 751 | 840 | - | - | - | - | - |
| Combined Cycle Damavand | combined cycle | 2009 | 247 | 224 | 220 | 203 | 203 | 203 | 203 | 203 | - | - | - | - | - |
| Total diesel power plants | diesel | 2001 | 740 | 624 | - | - | - | - | - | - | - | - | - | - | - |
| Total | | | 44 996 | 40 045 | 39 321 | 39 116 | 39 780 | 40 432 | 40 384 | 40 703 | 40 807 | 40 467 | 41 329 | 41 333 | 41 333 |
| Weighted average across thermal power plants | | | | 35.63% | 35.89% | 36.88% | 36.51% | 35.89% | 35.78% | 36.26% | 36.62% | 36.79% | 37.32% | 37.35% | |
| Weighted average for steam | | | | 37.09% | 36.97% | 37.37% | 37.17% | 36.96% | 36.69% | 36.51% | 36.68% | 36.76% | 36.81% | 37.16% | |
| Weighted average for gas | | | | 26.64% | 26.05% | 25.93% | 27.57% | 27.68% | 28.15% | 28.15% | 28.60% | 29.44% | 29.69% | 29.44% | |
| Weighted average for combined cycle | | | | 34.72% | 35.64% | 37.33% | 36.77% | 35.64% | 35.64% | 36.67% | 37.20% | 37.36% | 38.19% | 38.01% | |

Table 42: Operation of thermal non-MoE power plants, 2001-2011^{993, 994}

| Name of the power plant | Type of power plant | Type of actor | Data available since | Nominal capacity (MW) | Operation (in MW) | | | | | |
|---------------------------------|---------------------|---------------|----------------------|-----------------------|-------------------|-------|-------|-------|-------|-------|
| | | | | | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| Zargon (Shahid Modhej Steam) | steam | private | 2006 | 290.0 | 290.0 | 290.0 | 290.0 | 255.0 | 255.0 | 255.0 |
| Zargon (Shahid Modhej Gas) | gas | private | 2006 | 128.0 | 102.0 | 102.0 | 102.0 | 98.0 | 97.0 | 97.0 |
| South Estehsan (Chehel Soutoun) | gas | private | 2006 | 954.0 | 735.0 | 735.0 | 735.0 | 730.5 | 724.5 | 724.5 |
| Roudshour (1) | gas | private | 2006 | 528.0 | 420.0 | - | - | - | - | - |
| Roudshour (2) | gas | private | 2007 | 789.0 | - | 683.3 | 688.3 | 658.5 | 651.0 | 651.0 |
| Asalouyeh (1) | gas | private | 2007 | 318.0 | - | 250.0 | 723.0 | 823.5 | - | - |
| Asalouyeh (2) | gas | private | 2010 | 954.0 | - | - | - | - | 822.0 | 822.0 |
| Ferdousi (1) | gas | private | 2007 | 636.0 | - | 503.0 | 755.0 | 796.5 | - | - |
| Ferdousi (2) | gas | private | 2010 | 954.0 | - | - | - | - | 796.5 | 796.0 |
| Kahnuj | gas | private | 2007 | 50.0 | - | 39.0 | 39.0 | 37.5 | 38.0 | 38.0 |
| Khoramshahr (1) | gas | private | 2008 | 162.0 | - | - | 130.0 | - | - | - |
| Khoramshahr (2) | gas | private | 2009 | 486.0 | - | - | - | 423.0 | - | - |
| Khoramshahr (3) | gas | private | 2010 | 648.0 | - | - | - | - | 555.0 | 555.0 |
| Kashan | gas | private | 2009 | 324.0 | - | - | - | 273.0 | 257.0 | 258.0 |
| Noshahr | gas | private | 2009 | 47.4 | - | - | - | 40.0 | 40.0 | 39.0 |
| Golesan | gas | private | 2010 | 972.0 | - | - | - | - | 880.0 | 880.0 |
| Zavareh | gas | private | 2011 | 324.0 | - | - | - | - | - | 251.0 |
| Hafez | gas | private | 2011 | 648.0 | - | - | - | - | - | 469.0 |
| Parsh sar | gas | private | 2011 | 486.0 | - | - | - | - | - | 441.0 |
| Moutedhaye tolid parakande | gas | private | 2011 | 258.0 | - | - | - | - | - | 258.0 |

993 Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("توازننامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2008), p.266; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("توازننامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2009), p.138; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("توازننامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2010), p.158; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("توازننامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2011), p.150; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("توازننامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2012), p.147; Iranian Ministry of Energy, *Energy Balance-Sheet Iran* ("توازننامه انرژی ایران") (Tehran: Iranian Ministry of Energy, 2013), p.150.

994 Numbers in brackets for the same power plant indicate that the nominal capacity of the power plant has been changed due to expansions or reductions.

| Name of the power plant | Type of power plant | Type of actor | Data available since | Nominal capacity (MW) | Operation (in MW) | | | | | |
|--|---------------------|----------------|----------------------|-----------------------|-------------------|--------|--------|--------|---------|---------|
| | | | | | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
| Tractor construction | gas | large industry | 2006 | 20.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| Petrochemie Tabriz (1) | gas | large industry | 2006 | 70.0 | 60.0 | 60.0 | 60.0 | - | - | - |
| Petrochemie (Tabriz) (2) | gas | large industry | 2009 | 129.0 | - | - | - | 77.0 | 77.0 | 77.0 |
| Zoub Ahan (steam) (1) | steam | large industry | 2006 | 139.0 | 120.0 | 126.0 | 126.0 | 126.0 | 126.0 | - |
| Zoub Ahan (steam) (2) | steam | large industry | 2011 | 249.0 | - | - | - | - | - | 219.0 |
| Zoub Ahan (gas) | gas | large industry | 2006 | 26.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| Foulad Mobarakeh (steam) | steam | large industry | 2006 | 210.0 | 190.0 | 190.0 | 190.0 | 190.0 | 190.0 | 190.0 |
| Foulad Mobarakeh (gas) | gas | large industry | 2006 | 108.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Petrochemie Razi (gas) (1) | gas | large industry | 2006 | 252.0 | 190.0 | 190.0 | 190.0 | - | - | - |
| Petrochemie Razi (gas) (2) | gas | large industry | 2009 | 70.0 | - | - | - | 60.0 | 60.0 | 60.0 |
| Petrochemie Fajar (gas) (1) | gas | large industry | 2006 | 585.0 | 500.0 | 500.0 | 500.0 | - | - | - |
| Petrochemie Fajar (gas) (2) | gas | large industry | 2009 | 835.0 | - | - | - | 700.0 | - | - |
| Petrochemie Fajar (gas) (3) | gas | large industry | 2010 | 1,233.0 | - | - | - | - | 1,064.0 | - |
| Petrochemie Fajar (gas) (4) | gas | large industry | 2011 | 1,483.0 | - | - | - | - | - | 1,301.5 |
| Petrochemie Mobeen (gas) | gas | large industry | 2006 | 738.0 | 600.0 | 600.0 | 600.0 | 600.0 | 600.0 | 669.0 |
| Mass Sarcheschme (steam) | steam | large industry | 2006 | 24.0 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 14.0 |
| Mass Sarcheschme (gas) | gas | large industry | 2006 | 130.0 | 80.4 | 80.4 | 80.4 | 80.4 | 80.4 | 80.0 |
| Chadermalou | gas | large industry | 2006 | 40.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| South Pars/ Pars Jonoubi (1) | gas | large industry | 2008 | 318.0 | - | - | 250.0 | - | - | - |
| South Pars/ Pars Jonoubi (2) | gas | large industry | 2009 | 954.0 | - | - | - | 750.0 | 750.0 | 784.0 |
| Paialeshgah gas lam (1) | gas | large industry | 2009 | 50.0 | - | - | - | 42.0 | - | - |
| Paialeshgah gas lam (2) | gas | large industry | 2010 | 75.0 | - | - | - | - | 63.0 | 63.0 |
| Petrochemie Khorasan (steam) | steam | large industry | 2009 | 24.0 | - | - | - | 20.0 | 20.0 | 20.0 |
| Petrochemie Shiraz (steam) | steam | large industry | 2009 | 81.6 | - | - | - | 57.0 | 57.0 | 57.0 |
| Petrochemie Bandar Emam (gas) | gas | large industry | 2009 | 328.0 | - | - | - | 256.0 | 256.0 | 256.0 |
| LNG | gas | large industry | 2010 | 324.0 | - | - | - | - | 270.0 | 276.0 |
| Petrochemie Ilam | gas | large industry | 2010 | 120.0 | - | - | - | - | 95.0 | 100.0 |
| Weighted average across thermal power plants | | | | | 23.20% | 26.93% | 29.24% | 26.62% | 27.32% | 28.05% |

Table 43: Maximum load per month, April 2008-March 2013⁹⁹⁵

| | Month | Month | Maximum load (in MW) |
|------|-----------|-------------|----------------------|
| 2008 | April | Farvardin | 29,329 |
| 2008 | May | Ordibehesht | 32,684 |
| 2008 | June | Khordad | 34,311 |
| 2008 | July | Tir | 36,853 |
| 2008 | August | Mordad | 37,548 |
| 2008 | September | Shahrivar | 36,584 |
| 2008 | October | Mehr | 32,401 |
| 2008 | November | Aban | 28,856 |
| 2008 | December | Azar | 28,599 |
| 2009 | January | Dey | 28,671 |
| 2009 | February | Bahman | 28,183 |
| 2009 | March | Esfand | 28,176 |
| 2009 | April | Farvardin | 27,584 |
| 2009 | May | Ordibehesht | 31,568 |
| 2009 | June | Khordad | 33,749 |
| 2009 | July | Tir | 37,041 |
| 2009 | August | Mordad | 37,498 |
| 2009 | September | Shahrivar | 37,100 |
| 2009 | October | Mehr | 32,514 |
| 2009 | November | Aban | 29,015 |
| 2009 | December | Azar | 28,377 |
| 2010 | January | Dey | 28,613 |
| 2010 | February | Bahman | 28,708 |
| 2010 | March | Esfand | 29,097 |
| 2010 | April | Farvardin | 29,473 |
| 2010 | May | Ordibehesht | 33,695 |
| 2010 | June | Khordad | 38,590 |
| 2010 | July | Tir | 40,105 |
| 2010 | August | Mordad | 40,096 |
| 2010 | September | Shahrivar | 39,154 |
| 2010 | October | Mehr | 34,840 |
| 2010 | November | Aban | 30,859 |
| 2010 | December | Azar | 29,628 |
| 2011 | January | Dey | 28,227 |
| 2011 | February | Bahman | 26,967 |
| 2011 | March | Esfand | 26,896 |
| 2011 | April | Farvardin | 28,332 |
| 2011 | May | Ordibehesht | 33,058 |
| 2011 | June | Khordad | 36,794 |
| 2011 | July | Tir | 41,014 |
| 2011 | August | Mordad | 42,248 |
| 2011 | September | Shahrivar | 38,510 |
| 2011 | October | Mehr | 34,147 |
| 2011 | November | Aban | 29,593 |
| 2011 | December | Azar | 29,442 |
| 2012 | January | Dey | 29,757 |
| 2012 | February | Bahman | 29,422 |
| 2012 | March | Esfand | 29,514 |
| 2012 | April | Farvardin | 30,011 |
| 2012 | May | Ordibehesht | 36,287 |
| 2012 | June | Khordad | 40,410 |
| 2012 | July | Tir | 42,321 |
| 2012 | August | Mordad | 43,337 |
| 2012 | September | Shahrivar | 41,117 |
| 2012 | October | Mehr | 36,512 |
| 2012 | November | Aban | 31,879 |
| 2012 | December | Azar | 30,188 |
| 2013 | January | Dey | 30,586 |
| 2013 | February | Bahman | 30,721 |
| 2013 | March | Esfand | 30,772 |

⁹⁹⁵ Tavanir Holding Company, 'Maximum load of electricity per month', <http://amar.tavanir.org.ir/pages/project/generation/peak/89.php> [accessed January 20 2014].

Table 44: South Pars phases (as of May 2013) and its (historical) investors⁹⁹⁶; ⁹⁹⁷

| Phases | Capacities | Investors ⁹⁹⁸ (beinhaltet alle Investoren die an unterschiedlichen Zeitpunkten innerhalb des Projektes an dem Projekt gearbeitet haben) | Project status |
|----------|---|---|------------------|
| 1 | - Daily: 0,028 bcm (or 10,22 bcm/a) Gas; 40.000 barrels gas condensates, 200 tons sulfur; (onshore and offshore) | PetroPars, Pars Oil and Gas; Salman with OIEC (offshore) | completed (2004) |
| 2&3 | - Daily: 0,057 bcm (or 20,8 bcm/a) gas, 80.000 barrels gas condensates, 400 tons sulfur; (onshore and offshore) | Total (40%), Gazprom (30%), Petronas (30%) | completed (2003) |
| 4&5 | - Daily: 0,057 bcm (or 20,8 bcm/a) gas, 80.000 barrels gas condensates, 400 tons sulfur; (onshore and offshore), 1 million tons ethane p.a., 1,05 millionen LPG p.a; (onshore and offshore) | Agip Company (60%), Petro-Pars (20%), NICO (20%) | completed (2005) |
| 6, 7&8 | - Daily: 0,1 bcm (oder 36,5 bcm/a) gas, 158.000 barrels gas condensates, 1,6 millionen tons LPG p.a.; (onshore and offshore) | Petropars, Statoil (offshore) ⁹⁹⁹ | completed (2009) |
| 9&10 | - Daily: 0,057 bcm (or 20,8 bcm/a) gas, 80.000 barrels gas condensates, 400 tons sulfur; (onshore and offshore) | Pars Oil and Gas; Salman with OIEC (offshore); GS Korea; Deutsche Bank Kredit ¹⁰⁰⁰ | completed (2009) |
| 11 (LNG) | - Daily: 0,057 bcm (or 20,8 bcm/a) gas for LNG; | CNCP (bis 2012) ¹⁰⁰¹ ; 10% Petronas; CNPC | current project |

996 Pars Oil & Gas Company, *Pars Oil & Gas Company* (Tehran: Pars Oil & Gas Company, 2012).

997 Pars Oil & Gas Company, *South Pars* (Tehran: Pars Oil & Gas Company, 2009).

998 The list of investors has been put together through a variety of sources and may not be exhaustive. All western investors had left South Pars by the end of 2011.

999 After the project was finished, Statoil did not engage in any further projects in Iran.

1000 A credit of U.S. \$1.75 billion.

| Phases | Capacities | Investors ⁹⁹⁸ (beinhaltet alle Investoren die an unterschiedlichen Zeitpunkten innerhalb des Projektes an dem Projekt gearbeitet haben) | Project status |
|-------------|--|---|--------------------|
| | 80.000 barrels gas condensates (onshore and off-shore) | | |
| 12 | - Daily: 0,08 bcm (or 29,2 bcm/a) gas for IGAT 6; 120.000 barrels gas condensates; 750 tons of sulfur granulate (onshore and off-shore) | PetroPars (as well as ONGC of the Hinduja Group (20%)) and Angolas Sonangol (20%)) | Completion in 2013 |
| 13 (LNG) | - Daily: 0,057 bcm (or 20,8 bcm/a) gas; 75.000 barrels gas condensate; 2.870 tons LPG, 2.740 tons ethane, 400 tons sulfur; Gas-to-Liquid (GtL); (onshore and offshore) | PetroPiedar Iranian, MAPNA Group, SADRA ¹⁰⁰² | current project |
| 14 | - Daily: 0,057 bcm (or 20,8 bcm/a) gas; 75.000 barrels gas condensate; 2.870 tons LPG, 2.740 tons ethane, 400 tons of sulfur; (on-shore and offshore) | Industrial Development and Renovation Organization (IDRO), MAPNA, Iranian Offshore Engineering and Construction Company, National Drilling Company, Payandan Company, Iran Industrial Plans Management, ISOICO Company, Arak Machine Building Company | current project |
| 15&16 | - Daily: 0,057 bcm (or 20,8 bcm/a) Erdgas; 75.000 barrels gas condensate; 2.870 tons LPG, 2.740 tons ethane, 400 tons sulfur; (onshore and offshore) | Khatam-ol-Anbia Construction Headquarters (2006 to 2010) and replaced by the Iran Shipbuilding & Offshore Industries Complex Company (ISOICO) | Completion in 2013 |
| 17&18 | - Daily: 0,057 bcm (or 20,8 bcm/a) Erdgas; 75.000 barrels gas condensate; 2.870 | IDRO, IOEC, NIDC, OIEC, SADRA | current project |

1001 After the project was delayed by 1130 days, the CNPC opted out of phase 11. Prior to the CNPC, Total has a contract for the phase. The buy-back contract with the CNPC was for 52 months and an investment of an estimated U.S. \$4.6 billion. Since 2013, an Iranian company was supposed to take over phase 11, yet by June 2013 there were new discussions to integrate CNPC.

1002 In 2008, Royal Dutch/Shell and Repsol were interested in the construction of the LNG terminal, but by 2010 they were no longer part of the project plans. Originally the project sharing was determined to be: NIOC (50%), Royal Dutch/Shell (25%) and Repsol YPF (25%).

| Phases | Capacities | Investors ⁹⁹⁸ (beinhaltet alle Investoren die an unterschiedlichen Zeitpunkten innerhalb des Projektes an dem Projekt gearbeitet haben) | Project status |
|-------------|--|---|-----------------|
| | tons LPG, 2.740 tons ethane, 400 tons sulfur; (onshore and offshore) | | |
| 19 | - Daily: 0,057 bcm (or 20,8 bcm/a) Erdgas; 75.000 barrels gas condensate; 2.870 tons LPG, 2.740 tons ethane, 400 tons sulfur; (onshore and offshore) | IOEC | current project |
| 20&21 | - Daily: 0,057 bcm (or 20,8 bcm/a) Erdgas; 75.000 barrels gas condensate; 2.870 tons LPG, 2.740 tons ethane, 400 tons sulfur; (onshore and offshore) | IOEC | current project |
| 22, 23 & 24 | - Daily: 0,057 bcm (or 20,8 bcm/a) Erdgas; 75.000 barrels gas condensate; 2.870 tons LPG, 2.740 tons ethane, 400 tons sulfur; (onshore and offshore) | Petrosina Aria, SADRA | current project |
| 25 | <i>still open</i> | | |
| 26 | <i>still open</i> | | |
| 27& 28 | - Daily: 0,057 bcm (or 20,8 bcm/a) gas, 75.000 barrels gas condensate, 3.000 tons ethanw, 400 tons sulfur; (onshore and offshore) | Petropars | current project |
| 29 | <i>still open</i> | | |

Table 45: Electricity consumption by sector (in million kWh), 1990-2010¹⁰⁰³

| | Household | Public | Commercial | Industry | Transport | Agriculture | Other | Total |
|------|-----------|----------|------------|----------|-----------|-------------|---------|-----------|
| 1990 | 17,344.0 | 11,930.0 | | 10,220.0 | | 3,716.0 | 1,897.0 | 45,107.0 |
| 1991 | 19,128.0 | 13,609.0 | | 10,637.0 | | 3,792.0 | 2,009.0 | 49,175.0 |
| 1992 | 19,509.0 | 14,004.0 | | 13,262.0 | | 3,576.0 | 1,955.0 | 52,306.0 |
| 1993 | 22,143.5 | 14,984.0 | | 15,571.9 | | 4,023.3 | 1,392.0 | 58,114.7 |
| 1994 | 22,473.0 | 6,060.0 | 7,687.4 | 20,470.6 | | 5,169.0 | 1,766.0 | 63,626.0 |
| 1995 | 23,374.4 | 6,203.0 | 7,655.4 | 21,389.9 | | 5,401.7 | 1,830.0 | 65,854.4 |
| 1996 | 23,992.9 | 6,595.0 | 7,622.0 | 22,925.0 | | 5,730.9 | 2,704.0 | 69,569.8 |
| 1997 | 26,523.0 | 6,727.0 | 8,160.0 | 23,661.0 | | 6,009.0 | 2,278.0 | 73,358.0 |
| 1998 | 27,686.0 | 7,077.0 | 8,484.0 | 24,140.0 | | 6,782.0 | 2,477.0 | 76,646.0 |
| 1999 | 29,754.1 | 10,622.2 | 5,567.3 | 26,492.0 | 11.2 | 8,018.9 | 4,190.3 | 84,656.0 |
| 2000 | 31,265.9 | 11,271.1 | 5,990.4 | 28,923.7 | 13.3 | 9,147.5 | 3,753.9 | 90,365.8 |
| 2001 | 32,890.8 | 11,951.1 | 6,393.8 | 30,721.6 | 17.8 | 11,079.4 | 4,116.8 | 97,171.3 |
| 2002 | 34,945.8 | 12,630.0 | 6,925.0 | 33,455.6 | 13.3 | 12,434.7 | 4,671.0 | 105,075.4 |
| 2003 | 37,967.0 | 13,714.0 | 7,461.0 | 36,937.0 | 14.3 | 13,859.0 | 4,672.0 | 114,624.3 |
| 2004 | 40,563.9 | 15,020.0 | 7,862.7 | 40,247.8 | 89.7 | 15,489.1 | 5,188.0 | 124,461.2 |
| 2005 | 44,108.3 | 16,350.0 | 8,541.7 | 43,014.6 | 108.4 | 16,469.4 | 4,305.4 | 132,897.8 |
| 2006 | 48,085.5 | 18,327.6 | 9,319.5 | 46,430.2 | 144.2 | 17,666.2 | 4,607.5 | 144,580.7 |
| 2007 | 50,776.7 | 19,648.0 | 9,952.6 | 49,601.9 | 169.8 | 17,670.0 | 4,509.9 | 152,328.9 |
| 2008 | 52,896.1 | 20,428.0 | 10,741.8 | 51,863.9 | 245.8 | 21,178.7 | 4,090.9 | 161,445.2 |
| 2009 | 55,629.6 | 21,826.6 | 11,015.3 | 54,605.4 | 282.1 | 21,405.1 | 3,674.3 | 168,438.4 |
| 2010 | 60,907.7 | 21,308.1 | 12,725.3 | 61,186.0 | 299.5 | 24,188.8 | 3,564.0 | 184,179.4 |

1003 Strategic Planning Section of Electricity and Energy in Iran, '23 years of energy statistics of the country' ("مروری بر 23 سال آمار انرژی کشور"), http://www.saba.org.ir/saba_content/media/image/2012/04/3554_orig.pdf [accessed October 15 2013] (p.59).

Table 46: Electricity consumption by number of customers (in thousand people), 1990-2010¹⁰⁰⁴

| | Household | Public | Commercial | Industry | Transport | Agriculture | Other | Total |
|------|-----------|---------|------------|----------|-----------|-------------|-------|----------|
| 1990 | 8,193.0 | 1,364.0 | | 7.0 | | 25.0 | 52.0 | 9,641.0 |
| 1991 | 8,549.0 | 1,452.0 | | 7.0 | | 27.0 | 55.0 | 10,090.0 |
| 1992 | 8,835.0 | 1,566.0 | | 7.0 | | 28.0 | 58.0 | 10,494.0 |
| 1993 | 9,402.0 | 1,620.0 | | 31.0 | | 31.0 | 4.0 | 11,088.0 |
| 1994 | 9,924.0 | 385.0 | 1,328.0 | 46.0 | | 32.0 | 2.0 | 11,717.0 |
| 1995 | 10,408.0 | 317.0 | 1,463.0 | 52.0 | | 34.0 | 2.0 | 12,276.0 |
| 1996 | 10,441.0 | 290.0 | 1,579.0 | 55.0 | | 38.0 | 452.0 | 12,855.0 |
| 1997 | 11,385.0 | 350.0 | 1,706.0 | 69.0 | | 40.0 | | 13,550.0 |
| 1998 | 11,881.0 | 355.0 | 1,772.0 | 75.0 | | 44.0 | | 14,127.0 |
| 1999 | 12,502.0 | 436.0 | 1,805.0 | 81.0 | | 51.0 | | 14,875.0 |
| 2000 | 13,072.0 | 465.0 | 1,896.0 | 86.0 | | 60.0 | | 15,579.0 |
| 2001 | 13,683.0 | 523.0 | 1,970.0 | 91.0 | | 78.0 | | 16,345.0 |
| 2002 | 14,377.0 | 558.0 | 2,030.0 | 99.0 | | 89.0 | 18.0 | 17,171.0 |
| 2003 | 15,041.0 | 599.0 | 2,120.0 | 110.0 | | 106.0 | 23.0 | 17,999.0 |
| 2004 | 15,717.0 | 634.0 | 2,216.0 | 121.0 | | 116.0 | 30.0 | 18,834.0 |
| 2005 | 16,398.0 | 677.0 | 2,314.0 | 132.0 | | 127.0 | 37.0 | 19,685.0 |
| 2006 | 16,989.0 | 749.0 | 2,531.0 | 152.0 | | 138.0 | 47.0 | 20,606.0 |
| 2007 | 17,769.0 | 792.0 | 2,668.0 | 166.0 | | 151.0 | 61.0 | 21,607.0 |
| 2008 | 17,815.0 | 756.0 | 2,828.0 | 165.0 | | 174.0 | 70.0 | 21,808.0 |
| 2009 | 19,844.0 | 952.0 | 3,031.0 | 161.0 | | 202.0 | 81.0 | 24,271.0 |
| 2010 | 21,045.0 | 1,013.0 | 3,223.0 | 159.0 | | 258.0 | 98.0 | 25,796.0 |

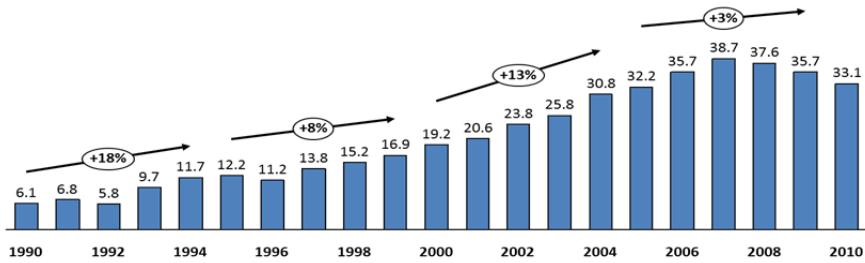
Table 47: Energy consumption by entity (in million kWh)¹⁰⁰⁵

| | Household | Public | Commercial | Industry | Transport | Agriculture | Other |
|------|-----------|--------|------------|----------|-----------|-------------|-------|
| 1990 | 2.1 | 8.7 | | 1,460.0 | | 148.6 | 36.5 |
| 1991 | 2.2 | 9.4 | | 1,519.6 | | 140.4 | 36.5 |
| 1992 | 2.2 | 8.9 | | 1,894.6 | | 127.7 | 33.7 |
| 1993 | 2.4 | 9.2 | | 502.3 | | 129.8 | 348.0 |
| 1994 | 2.3 | 15.7 | 5.8 | 445.0 | | 161.5 | 883.0 |
| 1995 | 2.2 | 19.6 | 5.2 | 411.3 | | 158.9 | 915.0 |
| 1996 | 2.3 | 22.7 | 4.8 | 416.8 | | 150.8 | 6.0 |
| 1997 | 2.3 | 19.2 | 4.8 | 342.9 | | 150.2 | |
| 1998 | 2.3 | 19.9 | 4.8 | 321.9 | | 154.1 | |
| 1999 | 2.4 | 24.4 | 3.1 | 327.1 | | 157.2 | |
| 2000 | 2.4 | 24.2 | 3.2 | 336.3 | | 152.5 | |
| 2001 | 2.4 | 22.9 | 3.2 | 337.6 | | 142.0 | |
| 2002 | 2.4 | 22.6 | 3.4 | 337.9 | | 139.7 | 259.5 |
| 2003 | 2.5 | 22.9 | 3.5 | 335.8 | | 130.7 | 203.1 |
| 2004 | 2.6 | 23.7 | 3.5 | 332.6 | | 133.5 | 172.9 |
| 2005 | 2.7 | 24.2 | 3.7 | 325.9 | | 129.7 | 116.4 |
| 2006 | 2.8 | 24.5 | 3.7 | 305.5 | | 128.0 | 98.0 |
| 2007 | 2.9 | 24.8 | 3.7 | 298.8 | | 117.0 | 73.9 |
| 2008 | 3.0 | 27.0 | 3.8 | 314.3 | | 121.7 | 58.4 |
| 2009 | 2.8 | 22.9 | 3.6 | 339.2 | | 106.0 | 45.4 |
| 2010 | 2.9 | 21.0 | 3.9 | 384.8 | | 93.8 | 36.4 |

1004 *ibid.*, p.57.

1005 *ibid.*, p.59-62.

Figure 85: Iranian electricity distribution losses, in billion kWh¹⁰⁰⁶



¹⁰⁰⁶ The World Bank Group, 'Energy statistics' <<http://data.worldbank.org/topic/energy-and-mining>> [accessed December 12 2013].

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